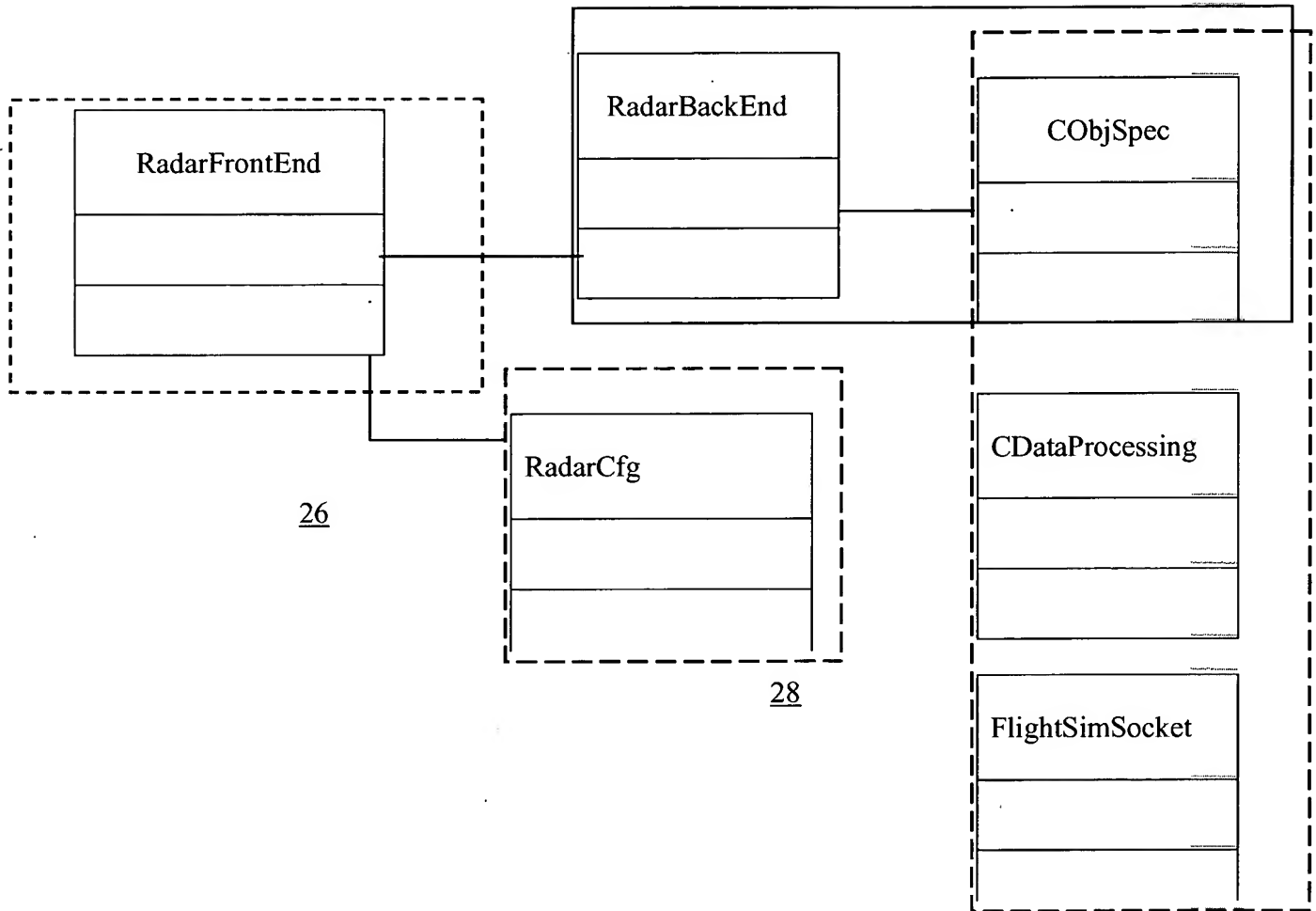




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FIG 4a

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FIG 4b

RadarFrontEnd
<ul style="list-style-type: none"> - bRotate : bool - bClearDisp : bool - bStopRendering : bool - bStandby : bool - iLinearSize : GLuint - cxCenter : float - cyCenter : float - lSweepAngle : float - lAlphaFade : float - lSweepIncrement : float - lRange : float - lGainFactor : float - hpTextures[10] : GLuint - lpSweepTexture[128][4] : GLfloat - uipRenderTexture[65536][3] : GLuint - pRadarBackEnd : *RadarBackEnd - pRadarCfg : *RadarCfg - pFirstNtt : *CobjSpec
<ul style="list-style-type: none"> + RadarFrontEnd(pConfig: RadarCfg, pBackEnd: RadarBackEnd, cxWidth: GLint, cyHeight: GLint) : void + ~RadarFrontEnd() : void + renderScene() : void + updateParameters() : void + pauseRendering() : void + continueRendering() : void + getHeloYaw() : void - orthoMode(xLeft: GLint, xRight: GLint, yBottom: GLint, yTop: GLint) : void - perspectiveMode() : void - createSweep(uiTextureID: GLuint, lxCenter: GLfloat, lyCenter: GLfloat, lzCenter: GLfloat, lxWidth: GLfloat, lyLength: GLfloat, lzHeight: GLfloat) : void - createTexture(uiTextureID: GLuint) : void - renderMotionBlur(uiTextureID: GLuint) : void - renderHeloSymbol() : void - drawBlip() : void

FIG 4c

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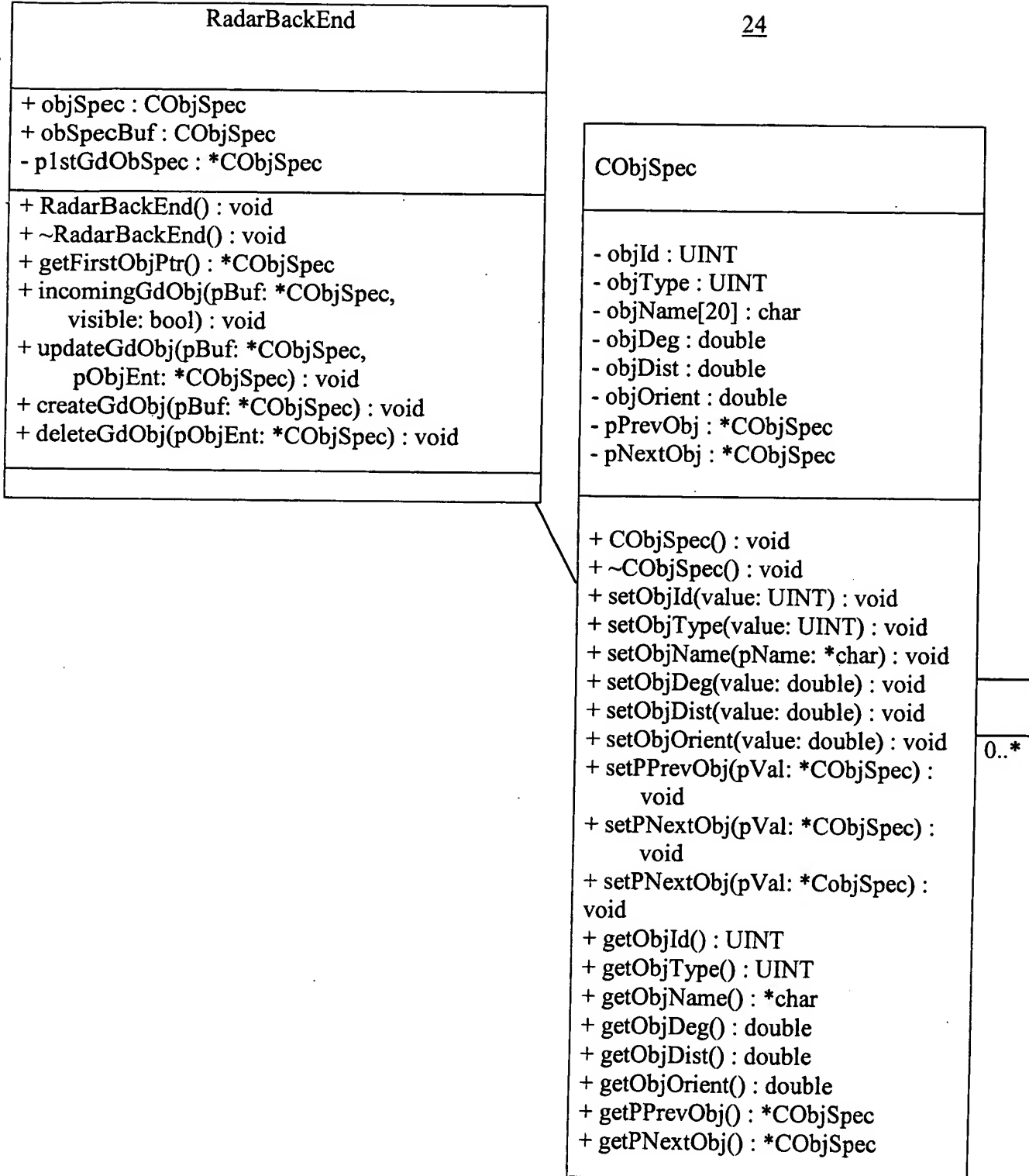


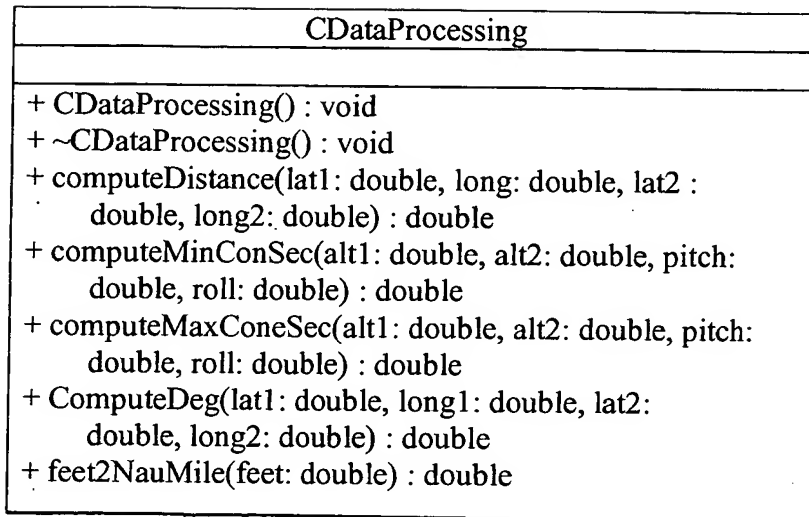
FIG 4d

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RadarCfg
<ul style="list-style-type: none"> - iModeSpeed : UINT - iRcvrGain : UINT - iStab : UINT - iEraseGPI : UINT - iPersist : UINT - iRange : UINT - cxHelo : UINT - cyHelo : UINT - cyHeloOffset : UINT
<ul style="list-style-type: none"> + RadarCfg(rModeSpeed: UINT, rRcvrGain: UINT, rStab: int, rEraseGPI: int, rPersist: <ul style="list-style-type: none"> UINT, rRange:UINT, rXPos: UINT, rYPos: UINT, rYOffset: UINT) : void + setModeSpeed(rParam: UINT) : void + setRcvrGain(rParam: UINT) : void + setStab(rParam: UINT) : void + setEraseGPI(rParam: UINT) : void + setPersist(rParam: int) : void + setRange(rParam: UINT) : void + setHeloXPos(rParam: UINT) : void + setHeloYPos(rParam: UINT) : void + setHeloYOffset(rParam: UINT) : void + getModeSpeed() : UINT + getRcvrGain() : UINT + getStab() : UINT + getEraseGPI() : UINT + getPersist() : UINT + getRange() : UINT + getHeloXPos() : UINT + getHeloYPos() : UINT + ~RadarCfg() : void

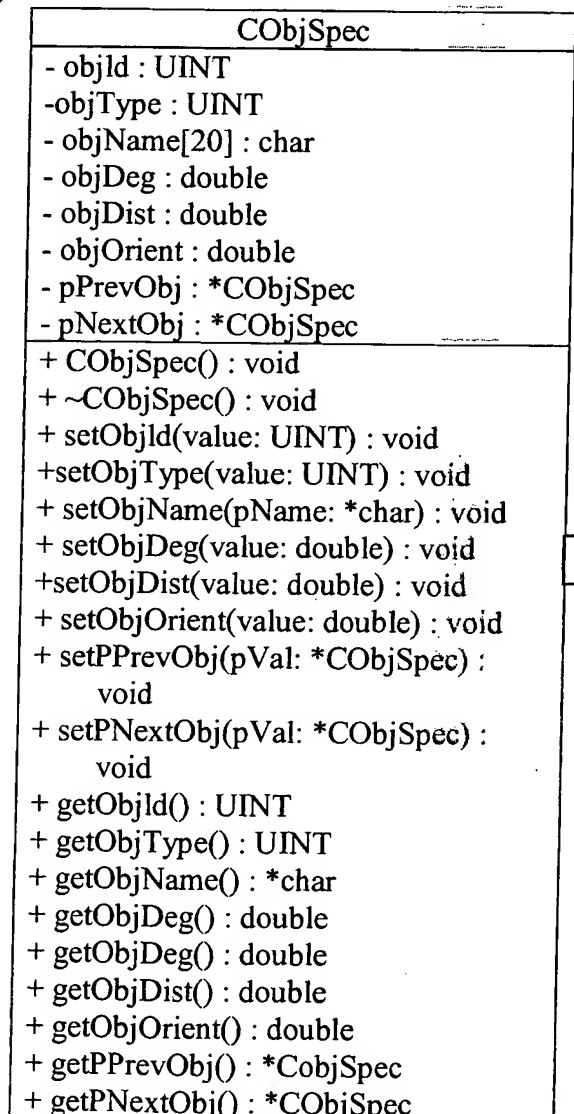
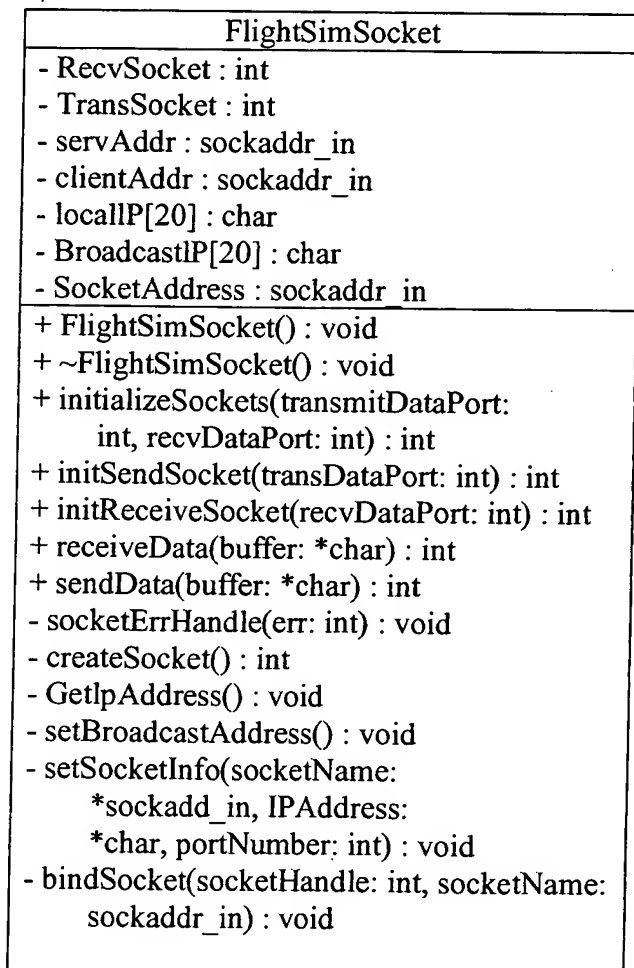
FIG 4e

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RADAR beam propagation model and calculations are independent from the rest of the software.

Network thread implementation receives data and executes separate from the rest of the software.



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